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Krebsforschung. Hyperthermie mit Chemotherapie, Elektrochemotherapie und Strahlentherapie

Facharbeit (Schule)



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Krebsforschung Hyperthermie Chemotherapie Elektrochemotherapie Strahlentherapie

**Michel Gautherie, Christian
Streffer, Peter Vaupel, George M. Hahn**



Krebsforschung Hyperthermie Chemotherapie Elektrochemotherapie Strahlentherapie:

Krebsforschung. Hyperthermie mit Chemotherapie, Elektrochemotherapie und Strahlentherapie Armin

Djahangir, 2015-06-12 Facharbeit Schule aus dem Jahr 2013 im Fachbereich Biologie Krankheiten Gesundheit Ernährung
Note 14 Sprache Deutsch Abstract Inwieweit besitzen Hyperthermie und Chemotherapie Elektrochemotherapie und Strahlentherapie Verbesserungspotential bezuglich ihrer Anwendung und Methodik beim krebserkrankten Patienten und wie entwickeln sich diese Sparten in der Zukunft Krebs stellt einen Sammelbegriff für alle bösartigen malignen Erkrankungen dar welche mit unkontrolliertem eigenständigem und gewebescheidendem Zellwachstum Tumorbildung einhergehen Griechische Mediziner entdeckten Krebsformen die sich förmlich in das Gewebe der Patienten eingruben Das helle schlecht durchblutete Tumorgewebe erinnerte an den Panzer eines zum Teil im Sand vergrabenen Krebses daher die Bezeichnung Krebs Seit der Antike sind Krebserkrankte bekannt und noch heute bemühen sich Forscher und Wissenschaftler ab einer absoluten Heilungsmethode zu finden In Deutschland erkranken jährlich etwa 340 000 Menschen an Krebs andere Quellen gehen von noch höheren Zahlen bis zu einer halben Millionen aus Speziell Personen ab 60 Jahren zeigen eine hohe Anfälligkeit Geschehen in einer durch Mutationen vorbelasteten Zelle m gleicherweise aufgrund von Vererbung weitere somatische irreversible Veränderungen so kann die Grenze zum bösartigen Tumor überschritten werden Je älter ein Mensch wird desto mehr Zeit hat ein Krebs sich zu entwickeln und Sekundärtumore zu bilden Aufgrund der niedrigen Geburtenrate in Deutschland ist diese Tendenz stetig steigend So prognostizieren Fachleute des Deutschen Krebshilfe e V bis 2050 eine Zunahme der Krebserkrankungen um 30% 221 000 Deutsche erliegen ihrem Leiden jedes Jahr Damit stellt Krebs neben Herz und Kreislauferkrankungen die zweithäufigste Todesursache in der Bundesrepublik dar Die häufigste Krebsform bei Frauen ist Brustkrebs bei Männern Prostatakrebs Davon sind in etwa 2/3 der Patienten gut therapierbar Es gibt eine große Palette an möglichen Ursachen für eine Krebserkrankung vieles ist jedoch noch unerforscht Dennoch weiß man dass erbliche Allele sowie der Einfluss von Umwelt und Ernährungsfaktoren eine große Rolle spielen Dass das Krebsthema nicht nur pessimistisch betrachtet wurde und wird zeigen neue Erkenntnisse der letzten Jahre speziell bezuglich der genetisch zellulären Tumorentstehung Optimisten wie der zwölfte Direktor des National Cancer Institute Andrew von Eschenbach sehen eine endgültige Lösungsfindung bzw

Kompandium Internistische Onkologie Standards in Diagnostik und Therapie

Hans-Joachim Schmoll, Klaus Höffken, Kurt Possinger, 2009-10-01 Der Schmoll bestirmt mit dieser nunmehr 4. Auflage weiterhin seinen Ruf als Standardwerk der Internistischen Onkologie Er gilt nicht nur als das umfangreichste sondern auch als das profundeste Nachschlagewerk das zuverlässig und nahezu vollständig über den neuesten Wissensstand in der Onkologie informiert Durch eine noch übersichtlichere Gliederung und ein neues Layout handelt es sich hier um ein äußerst instruktives Lehrbuch das für den onkologisch tätigen Arzt eine sehr wertvolle Informationsquelle darstellt und zur Basisausstattung in jede onkologische Abteilung gehören sollte Band 1 stellt Grundlagen Richtlinien Antineoplastische Substanzen Toxizitäten

prophylaktische und supportive Therapien der Band 2 enthält Diagnostik Therapie und praxisnahe Therapieanleitungen Sämtliche Kapitel wurden inhaltlich erweitert ergänzt und aktualisiert die Therapieoptionen sind wissenschaftlich und klinisch auf den neuesten Stand gebracht Band 3 enthält in bewährter Weise die kurzgefassten Indikationen und Therapieschemata für die Kitteltasche Die Leitlinien der Deutschen Krebsgesellschaft sowie weiterer Fachgesellschaften wurden übernommen Neu Das komplett aktualisierte Adressverzeichnis mit allen auch international wichtigen onkologisch relevanten Adressen finden Sie ab dieser Auflage online auf der Kompendium Website

Lokoregionale Hyperthermie in Kombination mit Strahlentherapie oder Chemotherapie bei Mammakarzinomen und Brustwandrezidiven Nina Pernthaler, 2016

Hyperthermia and Radiation Therapy / Chemotherapy in the Treatment of Cancer J. M. Vaeth, 1984-02-06

Biological Basis of Oncologic ThermoTherapy Michel Gautherie, Christian Streffer, Peter Vaupel, George M. Hahn, 1990

Studies on the effects of hyperthermia have aroused great interest in recent years On the one hand it has been demonstrated that hyperthermia may be a useful treatment modality for tumors in combination with ionizing radiation or cytotoxic drugs On the other hand it is of great scientific interest to study the effects of increased temperature on biological systems Although hyperthermia has been used in the treatment of cancer for centuries its therapeutic success was doubtful However since it has been shown that radiation induced cell killing can be remarkably enhanced by hyperthermia many investigations have been performed with cells in vitro tumors in situ and normal tissues From these studies it has been concluded that many biological phenomena and their characteristics which are found in tumors may be conducive to the use of hyperthermia in cancer therapy Many researchers are studying the cell killing mechanisms of heat and factors that modify cell thermosensitivity A very fascinating biological phenomenon is the general observation that living cells can enhance their thermoresistance within hours of heat treatment The development of such thermotolerance is apparently a universal process and its mechanism is of general scientific interest Metabolic and physiological processes are changed during and after hyperthermic treatment These changes exert a strong feedback on the thermosensitivity of cells and tissues and also influence the heating characteristics of tissues especially in tumors Strahlentherapie. Arten und Effekte auf Zellen

Christian Friedrich, 2015-06-11 Facharbeit Schule aus dem Jahr 2013 im Fachbereich Biologie Sonstige Themen Note 1,0

Sprache Deutsch Abstract In dieser Arbeit werden verschiedene Strahlenarten und ihre Wirksamkeit vorgestellt Der Schwerpunkt ist der Vergleich von Röntgenstrahlen mit dem Beschuss des Tumors mit Protonen oder schweren Ionen Protonen oder schwere Ionen dringen tiefer ins Gewebe ein als Röntgenstrahlung und geben erst dort ihre gesamte Energie ab Aus diesem Grund sind diese für die Strahlentherapie ideal geeignet Zu dieser Therapieform wird unterstützend die Hyperthermie angewandt die die Tumorzellen sensibler für Strahlung macht Das Prinzip dieser Therapie ist dass die Reparaturmechanismen der Tumorzellen verschlechtert beziehungsweise die Kontrollpunkte im Zellzyklus außer Kraft gesetzt werden Hierfür ist das p53 Protein verantwortlich da dieses den Mechanismus der Apoptose in Gang setzt beziehungsweise

den Zellzyklus stoppt Durch den Einsatz von Hyperthermie akkumuliert dieses Protein in der Zelle und der Reparaturmechanismus wird in Kraft gesetzt beziehungsweise die Apoptose hervorgerufen Cancer Therapy by Hyperthermia and Radiation Christian Streffer,1978-01-01 Cancer Therapy by Hyperthermia and Radiation ,1978

Strahlentherapie E. Scherer,2013-03-13 Unter Mitarbeit zahlreicher Experten Kombinationstherapie der Oropharynx- und Hypopharynxkarzinome Deutsche Krebsgesellschaft. Arbeitstagung,1987 **Strahlentherapie** ,1954
Ergebnisse der Behandlung maligner Tumoren mit kombinierter Hyperthermie-Strahlentherapie Judith Hanka,1987 **Hyperthermia and the Therapy of Malignant Tumors** Christian Streffer,1987

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1 which of the following statements accurately describes animals a all animals are multicellular all are heterotrophic and all

lack cell walls b all animals are multicellular some are heterotrophic and some lack cell walls c some animals are multicellular all are heterotrophic and all lack cell walls d

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